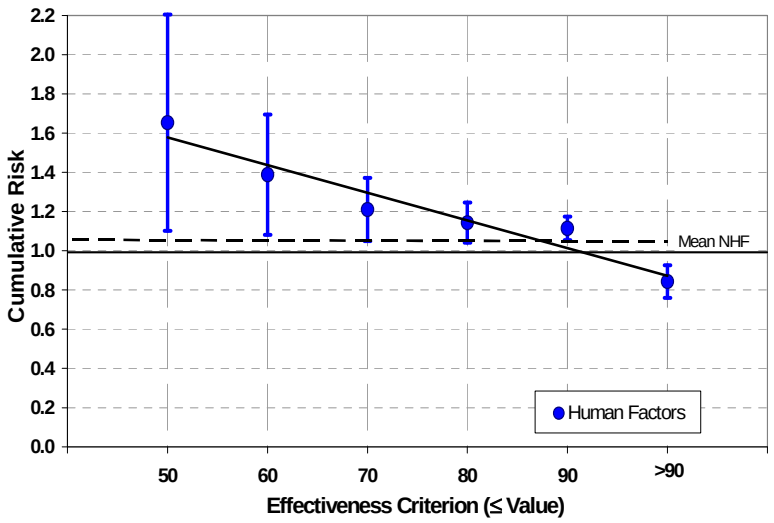
Fatigue Avoidance Scheduling Tool (FAST)



Project Description:

Validate and calibrate the Fatigue Avoidance Scheduling Tool (FAST) that will enable work schedule planning for fatigue avoidance and forensic analysis for accident investigations

- Develop a validation and calibration method
- Validate and calibrate the FAST
- Conduct fatigue analysis on 1,400 30-day histories for train crews in human factor and nonhuman factor accidents.

Railroad Impact:

- Meets National Rail Safety Action Plan action item to "Accelerate research on railroad crew work history to validate a fatigue model for possible use to improve crew scheduling."
- Reduce accident rates by better planning of work schedules to avoid fatigue
- Improve forensic evaluation of the role of fatigue in railroad accidents

FRA Task Monitor: Tom Raslear, RDV32

Cost & Schedule:

- **FY02-03** – Adapt FAST to Rail
- **FY04-05** – Model Validation
- **FY06-07** – Complete draft Summary Report. Prepare to publish database for research use. Prepare FAST Wizard for delivery to Safety Inspectors.
- FY08 – Publish Summary Report and database, deliver FAST Wizard